

METHOD FOR MANUFACTURING MOLDED CARBON FILTERS

Patent Number: WO9814265
Publication date: 1998-04-09
Inventor(s): KELLEY PAUL
Applicant(s): HONEYWELL INC (US)
Requested Patent: ☐ WO9814265
Application Number: WO1997US17708 19971001
Priority Number(s): US19960723891 19961001
IPC Classification: B01D39/20; C01B31/08
EC Classification: B01D39/20F
Equivalents:
Cited Documents: EP0159696; EP0384716; US5178768; FR2140537; WO9217327; US4867944; US5443735

Abstract

A method for manufacturing molded carbon water filter blocks includes the steps of supplying carbon powder or granules, a thermoplastic polymeric binder, and an additive (in form of a redox material, anionic resin beads or powder or slowly soluble phosphate beads) through computer-controlled conveyors to individual weigh bins. Each of these materials is weighed in preestablished proportions; and when the appropriate amount of material is present in each of the weigh bins, they are emptied into a mixer. The carbon, binder and additives are thoroughly mixed and then supplied to a second weigh bin, which then is emptied into a mold. The mold is moved through a conveyor oven to cause the binder to bind the mixture of carbon, binder and additive together. After the mold is removed from the oven, it is compressed under pressure until it cools to a temperature below the melting temperature of the binder. The filter block then is removed from the mold.

Data supplied from the esp@cenet database - I2